



DUPLICATING TECHNOLOGIES, INC.

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Dear Customer:

1. The 4.0 is ready.
2. About the Happy's Cheerup Upgrade.
3. The Real Story of Happy's Major Problems.

We are pleased to announce that Revision 4.0 for our Duplicator is ready and waiting to be shipped.

As we stated previously, our Module creator is enabling us to get our revisions out much more quickly and efficiently. We now have the technology to backup any form of protection on the market today. Even disks protected by hardware keys that must be present in the joystick ports offer no problems for the Duplicator.

The Module program will remove the protection from the copyguarded disk allowing our customers to make backup copies of their valuable software and these backups you make can now be sent over the phone lines by modem.

In order to demonstrate the power of the Duplicator and show our customers we now can backup anything, our 4.0 module has a great variety of copyguard schemes. We would like to mention a few of these now because we are very excited about them.

The 4.0 includes Racing Destruction set by Electronic Arts, World Karate Championship by Epyx, Lode Runners Rescue by Synapse, Wizards Crown by SSI and Music Studio by Activision. Our main copy program now includes all the Hayden SAT Educational Series. Duplicating Technologies are the first to make a working copy of Paperclip by Batteries Included. The copies made do not need the hardware key present in the joystick port. We have pledged to our customers that whatever the software manufacturers DO, WE WILL UNDO.

The price for this upgrade will be \$13.95 plus shipping and handling. It is unfortunate to have to charge for upgrades but there is a great deal of time and work involved in getting these upgrades to you. We will try our best to keep the cost down to a minimum. The price for the upgrade is 1/3 the cost of just one of the programs the module can copy. There are over 100 modules on this 4.0 Revision breaking down to about .14¢ a piece for each program on the module.

THE CHEERUP UPGRADE

We understand one of our minor competitors the "HAPPY" is now selling a "Cheerup Upgrade" to turn your Duplicator into a "Sad Happy". Please understand they are quite worried about the power of the Duplicator. (Read Part 3 for the real story. We have written a thorough explanation of this.) If you decide to Happy Enhance your Duplicator, please understand the copies of many programs you make will run only on that Happy enhanced drive. EXAMPLE: A copy of Zorro or Never Ending Story or even Goonies made on the duplicator will run on any drive. The copy made on the Happy Enhanced Duplicator will now run on that particular drive only! You will not be able to run these copies on any other drive what-so-ever. Our duplicator copy program and software will not work with this "Cheerup Upgrade".

We at Duplicating Technologies feel its a pitiful thing to ask a customer to buy a product (The Happy) and then have the software's execution dependent on that product.

We have our answer to the "Cheerup Upgrade". We call this product the "Backup Master". This product is not necessary for our Duplicator customers. Our 4.0 contains a variation of of the "Backup Master" combining the long awaited Telegard program with the Duplicator. You now can send all your module made copies over the modem lines. Our "Backup Master" and 4.0 modules will actually remove the protection from your copies.

The "Backup Master" is software only. It has been designed to backup hundreds of individually listed programs without the use of our Duplicator. It has also been designed to help the Happy drives copy disks that:

1. cannot be copied with the Happy and
2. can be copied with a Happy but now can run on any drive.

We do not ask you to change your Happy. The Backup Master does not make any changes to your Happy. What we do is allow you to break your chains to the Happy drive and let the copies you make run on any drive. The Backup Master does not even need

a 1050. You may use your Rana, Indus, Trak or Percom to make your copies. Look for more information about this product in our upcoming advertisements in Antic Magazine or write us for a detailed explanation of this product.

OUR OPINION OF HAPPY COMPUTERS

The release of our REV 3.0 software for the 1050 Duplicator has greatly angered one of our minor competitors Happy Computers Inc. of Morgan Hill California.

To those Atari users who are not familiar with Happy Computers, they are a small outfit run out of Richard Adams home in California. They market the Happy 1050 Enhancement for the 1050 drive. This device is based on the 6502 microprocessor and is similar to our 1050 Duplicator. This device has merit. It will increase the disk loading time and give your drive true double density. The Happy Enhancement does have one major weakness, which is it can not make working backups of the newer forms of protection appearing on the market today. Its inability to backup new programs we feel will eventually put Happy Computers out of business. We will explain further on.

The reason for writing this letter to Atari users is Duplicating Technologies has been the victim of some rather unflattering advertisements by Happy. We feel it is time to reply to his questionable business practices. Although we have never used his company name in our advertisements and we have never sent customers poor reviews of his Happy written by us or disinterested third parties. It is time to tell our side of the story.

The bottom line is that the "Happy" has major major problems.

Software manufacturers can use the most simplest copyguards like the bad sector to stop piracy and the backing up of their software.... Then why do they use such elaborate and sophisticated forms of protection? The answer is simple to make products like the Duplicator and the Happy as ineffective as possible.

A new form of protection has appeared on the market recently and it is called "THE WEAK SECTOR" (we will go into the technical aspects of it a little further on). This new form of protection is being employed by companies like Datasoft and Synapse at the moment. What Synapse and Datasoft has done is make a protection scheme so powerful; it knocked the Happy for a "major loop". It made the Happy unable to make a working copy of the program run on any drive except its own drive. Can you imagine the consequences of this protection to a Happy Enhanced drive. If other software manufacturers decide to employ it and the weak sector becomes more and more widely used, all these new programs will need a Happy drive to run its copies.

"Give your original to your one friend and keep your copy for your own drive". Don't you think Synapse and Datasoft are trying to stop the spread of their software. They realize they have done it with Happy. You can no longer make those indiscriminate copies with your Happy because they will not run on any of your drives except the Happy Enhanced drive.

Richard Adams will shyly tell you this is true but, the Duplicator cannot copy everything the Happy can. This maybe true although only Syncalc comes to mind that can be copied with a Happy and not a Duplicator. Syncalc will be available on our 5.0 upgrade. If you find anything the duplicator cannot copy with this 4.0 Revision write us and we will have it taken care of with the following upgrade. The point is we can copy the weak sector. There is no copyguard scheme on the market today we cannot copy and have it run on any drive!! We have demonstrated we can do all the protection schemes on the market today.

Now lets give you examples of what we are talking about and let us get a bit technical.

WHAT IS A WEAK SECTOR? A weak sector must be created on a very sophisticated and costly commercial disk backup device used by large software protection houses. When this weak sector is written; the current to the read/write head of the drive is lowered for a few micro seconds. The result is a sector that is called "weak". Everytime you read this weak sector, the data will be slightly different where as a good sector will always return the same data. Once a weak sector is on a disk it is easy for the programmer to protect his software for he knows every time he instructs his program to read this weak sector it will return different data.

Let us say as an example we wanted to copy protect a game and we knew that sector 719 was weak we would write a small routine to read sector 719 say 5 times and if the data of the 5 reads were to be different each time we would then branch and run the game. If the reads of sector 719 were the same each time then we would assume the disk to be a pirated copy (for standard hardware cannot reproduce the weak sector) and we would have our program branch on this condition and lock up. When the Happy drive reads a weak sector it will write a good sector in its place. It is absolutely impossible for the Happy to reproduce a weak sector. His hardware does not have this ability and never will. As stated previously the reason for the costly development of new forms of protection by software manufacturers such as weak sectors is to put copy devices like the Happy Enhancement and the 1050 Duplicator out of business. A simple bad sector is all that is needed to prevent copying software with DOS or copy programs that are sold.

Only a few games are now protected by the weak sector for this protection is new, but one thing is for sure it will spread and the day will soon be here when all software manufacturers will employ the weak sector as a copyguard. Why? Because it works! In time this will render the Happy 1050 useless. Happy will be history for he will be out of business. Duplicating Technologies has demonstrated the ability to copy the weak sector. Our future and that of our customers is secure.

Happy claims to copy the weak sector but this is trickery. Let us use the game Zorro by Datasoft as an example. It is a good representation of all weak sector programs. THE COPY MADE BY HAPPY WILL ONLY RUN ON A HAPPY DRIVE. This is absolutely and totally unacceptable. What if your Happy fails? You will not be able to run your backup. What if you have more than one computer system? You will be forced to buy a Happy for each drive. What will you do if a friend or neighbor wants a copy? In his latest brochure he says "his way will stop the spread of software piracy for the copy you make will only run on a Happy". Come on now!!! Does he think Atari users are stupid? All other copies on the Happy will run on any drive. All of a sudden he is concerned about piracy. Whose side is he on? The users or the software manufacturers? Why doesn't he admit the truth? He cannot do what the 1050 Duplicator can do. The staff at Duplicating Technologies and Bob Gardner have put him to shame! Richard Adams and his Happy Enhancement have some problems.

The copy you make of the game Zorro made on a 1050 Duplicator with Rev 3.0 or higher software will run on any drive and any Atari computer. There are no restrictions on our copies. Another important fact is that we do not force Atari users to buy our products in order to run backups and we never will. Happy Computers is no longer competition to Duplicating Technologies. His inability to make all copies run on any drive removes him from this category. We would like to compare the Happy to the Impossible from Computer Software Services. Their copies only run on their computers.

Duplicating Technologies will not be put out of business by new forms of protection and our customers will always be able to make working copies (on any drive) of these new programs. We would like to say one more thing to clear the air, that is Richard Adams has been telling people we copied his idea. I did not know ideas were private property. RCA had an idea for a television, I do not see the Sony or Zenith television infringing on their idea. The same thing applies to G.E.'s refrigerator infringing on Whirlpool's refrigerator.

I will tell you a fact. The Happy copied the entire Atari operating system and put it in their own operating system which is the cause of their problems today.

The Atari operating system does not have the capabilities of interpreting these new forms of protection. Our operating system was written in Action from "byte one" byte for byte. This is why our product needed a shakedown period this past year, but it is stronger and more powerful than any Atari operating system and any Happy and its future is tremendous.

We are in the process of designing new and innovative software to further the Duplicators efficiency. Our compiler is nearing completion and our modules are getting bigger and better. Our product line is doing very well in Canada, Europe and of course the United States markets. We will support our system at all costs and go to any lengths.

THE STAFF AT DUPLICATING TECHNOLOGIES

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DUPLICATING TECHNOLOGIES, INC.

USING THE 4.0 REVISION

The 4.0 Revision is a two part process. The first part will make a copy of the protected original. The second part of the program will remove the protection from your new copy. These unprotected copies can run on any drive or computer. Additional copies can be made with any DOS or any copy program. These copies can now be transferred over a modem or can be converted to Enhanced or Double Density. You will also find unprotected disks will also load faster.

GENERAL INFORMATION

To determine which modules are on the 4.0 Revision boot side 1 of the Revision. IMPORTANT Basic must be installed for the Modules to run. Do not hold the OPTION key when booting. Choose Option 2 "Run Module Program" and page through the selections of programs by pressing the space bar.

NOTE: This program is copy protected and will take more time to load. You will not be able to backup the Revision 4.0 Modules. (Side 1)

The 4.0 Revision now has three different copy programs to utilize. They are the following:

1. Main 4.0 copy program- used to copy all disks that are not contained in the modules. (This program is located on side 2 of your Revision 4.0).
2. XE copy- designed to be used with the modules on a XE computer only. (This is a one pass copy program) If you have an XE computer skip the Copy Dup section.
3. Copy Dup is used with the modules only if you have any computer other than an XE. (This will take more than one pass).
Being that copy dup does not use basic we had to put it on side 2 of the revision. (The programs on side 1 require basic). To access Copy Dup on side 2, just boot up DOS without BASIC. Use the A Function of DOS to locate the program. If you have one drive use the O Function to copy this file to a blank formatted disk containing DOS 2.5 only. We would suggest renaming the file after it is moved to Auto Run. SYS. This will enable you to auto boot

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this copy program instead of binary loading it every time you want to use it.

NOTE: The destination disk that you make must be pre-formatted. This copy program does not have a format function.

MAKING A BACKUP WITH THE MODULES

After you have made your backup copy you have two choices, depending on which copy program you have used. If you have used the XE copy program you will be instructed to insert the Duplicator moduled Revision 4.0 disk. Just follow the prompts. If you are using copy Dup or any other sector copy program that you may have. After completing your copy, you will now want to boot the 4.0 Master Module Disk and choose Option 2 to run your module program. Choose the program name from the selections and the prompts will instruct you to insert your newly made backup. Upon hitting return, all the protection will be removed. This only takes a second or two.

Congratulations you now have an unprotected backup copy and subsequent copies can now be made from that disk, using DOS or any copy program.

MODEM PROGRAM

Any whole disk transfer modem program can be used to send your unprotected disks over the telephone. If you do not have a suitable modem program we have provided one for you. This program will only work with any Atari 835, 1030 or the new XM 301 Modem.

How to access this program:

1. Have a formatted disk with only DOS 2.5 on it.
2. Boot a DOS and locate the two files AUTORUN. SYS and MODEM. RUN. One is the Modem Autorun Handler and the other program is the main modem program.
3. Use the O Option of DOS to move these two files to a Dos disk.

CAUTION - DO NOT CHANGE THE NAME OF EITHER ONE OF THESE FILES!!!

IMPORTANT NOTES

If you do not succeed in copying a program listed on the modules then deprogram the Duplicator before running one of the copy programs and try again. The reason for this is that running sector copy programs with the Duplicator in the fast mode maybe to quick and therefore, the copy program may pass over information hidden in the protection. DO NOT ever write to the master 4.0 disk. Any attempts to copy the disk could destroy it.